HEK293-YFP Stable Cell Line

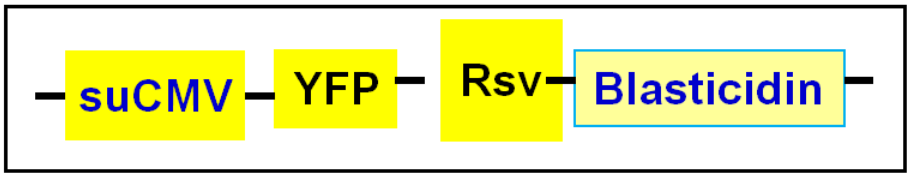
Catalog Number	Amount	Storage
SC011	1 vial of cells (2 x 10^6 cells) in 80% DMEM, 10% FBS, 10% DMSO	Liquid nitrogen

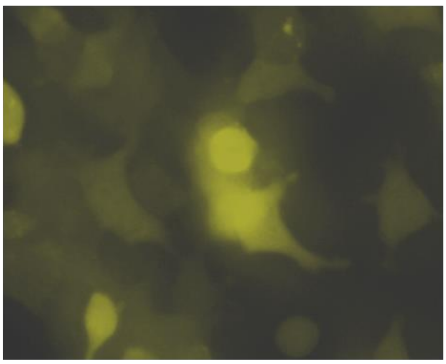
Product Description

The HEK293 Cell Line is a stable line established from primary embryonal human kidney transformed with sheared human adenovirus type 5 DNA. The expressed E1A adenovirus gene allows these cells to produce very high levels of protein.

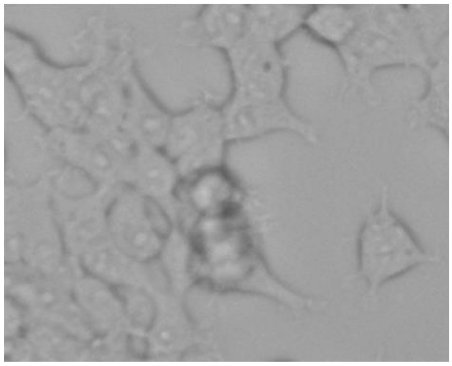
HEK293-YFP cell is transformed from the 293 cell line and stably expresses **YFP** gene. It is established by transduction of YFP expressing lentivirus that also contains a **blasticidin** resistant gene for selection and maintenance of the stable cell line. YFP is constitutively expressed in high-level under CMV promoter. The following expression construct was integrated into cell's genome.

Core expression cassette:





500nm/535nm (Ex/Em) filter



Bright light

Culture procedure

1. Thaw the frozen vial of cells quickly in a 37°C water bath (1-3min), decontaminate the outside of the vial with 70% ethanol.

2. Transfer the entire content of the cryovial into a T-75 cm^2 flask containing 15 ml of pre-warmed complete medium. Incubate the cells overnight in a 37°C incubator, 5% CO_2.
3. The following day, replace the medium with 15 ml of pre-warmed, complete medium (Optional: add 10 µg/ml blasticidin in medium).
4. Incubate the cells and monitor cell density.
5. Passage cells (1:10 dilution) when the culture reaches 80-90% confluency.
6. Freeze cells at a density of 3 x 10^6 cells/ml using 90% complete medium with 10% DMSO.

Complete medium

D-MEM (high glucose)
2mM L-glutamine
10% Fetal Bovine Serum (FBS)
0.1 mM MEM Non-Essential Amino Acids (NEAA)
1% Pen-strep (optional)

Quality Control

Each vial contains greater than 2 x 10^6 cells with >95% viability before freeze. Cells are tested free of bacteria, viruses, mycoplasma.

Warranty and user terms

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